



$$f(x) = \begin{cases} 0 & , \text{ if } x \leq 0 \\ \frac{1}{n} + 2 \left(x - \frac{1}{n} \right) & , \text{ if } x \in \left[\frac{1}{n}, \frac{1}{n-1} \right), n \in \mathbb{N}, n \geq 2 \\ 0 & , \text{ if } x \geq 1 \end{cases}$$